

Notice of Allowability

Application No.

10/039,514

Examiner

Brenda Pham

Applicant(s)

HALL ET AL.

Art Unit

2664

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/26/2001.
2. ☒ The allowed claim(s) is/are 1-25,27-29, renumbering as 1-28, respectively.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 8/12/02
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Brenda A. Pham

9/7/05

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Jerry Stanton, Reg. No. 46,008 on September 7, 2005.

2. The application has been amended as follows:

Claims 26 and 30 are canceled.

Claim 1, line 7, after "the content of at least TT" inserted
"wherein a frame function as one of a normal traffic frame and a termination frame, wherein the step of receiving includes a step identifying the frame as to a type of frame by examining at least the content of TT, and wherein for the case of the repeating frames being of the normal frame type, the contents of the THs and of the TTs is the same across the repeating normal frames, the normal frame THs and TTs are not error correction encoded, and the normal frame THs and TTs are used by receiver circuitry at least for one of frame synchronization, equalizer training and AGC training purposes."

Claim 27, line 6, after "the content of at least TT" inserted "wherein a frame function as one of a normal traffic frame and a termination frame, wherein the step of receiving includes a step identifying the frame as to a type of frame by examining at

least the content of TT, and wherein for the case of the repeating frame being of a normal frame type, the contents of the THs and of the TTs is the same across the repeating normal frames, the normal frame THs and TTs are not error correction encoded, and the normal frame THs and TTs are used by receiver circuitry at least for one of frame synchronization, equalizer training and AGC training purposes.”

Claim 29, line 9, after “data generated by a “ inserted “fractional rate”

REASONS FOR ALLOWANCE

3. Claims 1-25 and 27-29 allowed.

The following is an examiner's statement of reasons for allowance: the prior art made of record fails to teach or fairly suggests in combination wherein receiving a frame; where the received frame functions as one of a plurality of different types of frames depending on the content of at least TT (tail training symbol field), wherein a frame function as one of a normal traffic frame and a termination frame, wherein the step of receiving includes a step identifying the frame as to a type of frame by examining at least the content of TT, and wherein for the case of the repeating frames being of a normal frame type, the contents of the THs and of the TTs is the same across the repeating normal frames, the normal frame THs and TTs are not error correction encoded, and the normal frame THs and TTs are used by receiver circuitry at least for one of frame synchronization, equalizer training and AGC training purposes.

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The prior art further fails to teach in combination when transmitting a last traffic frame over the CDMA channel, replacing at least a part of the fixed training data in the TT field with data generated by a fractional rate data encoder; and receiving the last traffic frame and using, for a data decoder, data from the TT field data was generated by the data encoder.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Abe (US 6,424,689 B1) discloses CDMA super frame structure of radio communication system has super frame header containing several frames of data for synchronous operation which is transmitted to super frame unit.

Conclusion

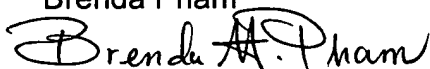
5 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brenda Pham whose telephone number is (571) 272-3135. The examiner can normally be reached on Monday-Friday from 9:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin, can be reached on (571) 272-3134.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

September 7, 2005

Brenda Pham

A handwritten signature in black ink that reads "Brenda A. Pham". The signature is written in a cursive style with a large, stylized "B" and "P".